

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648044

Luminaire Tested: **GALN-SA7A-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648044  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-835-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21099.5 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

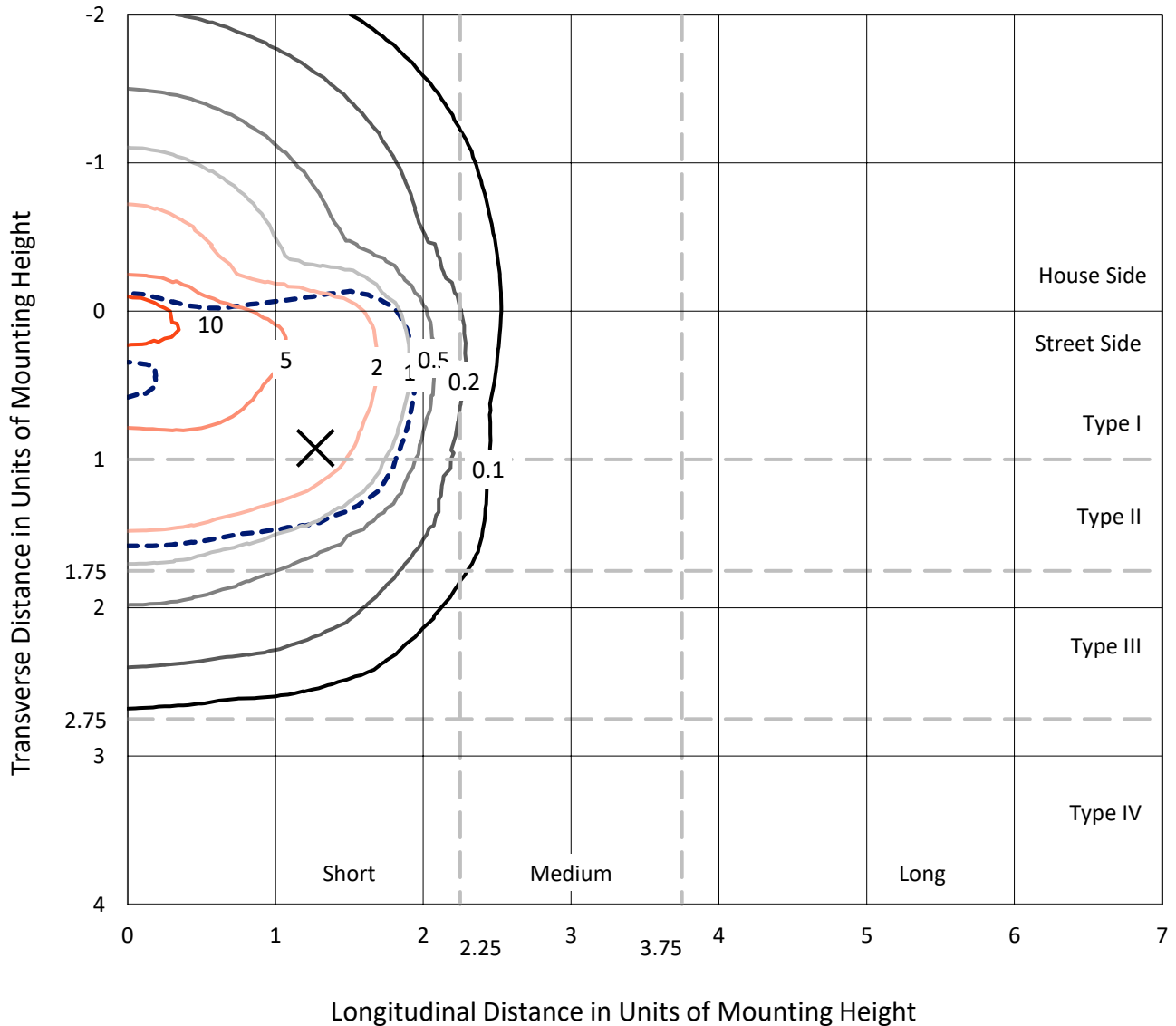
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

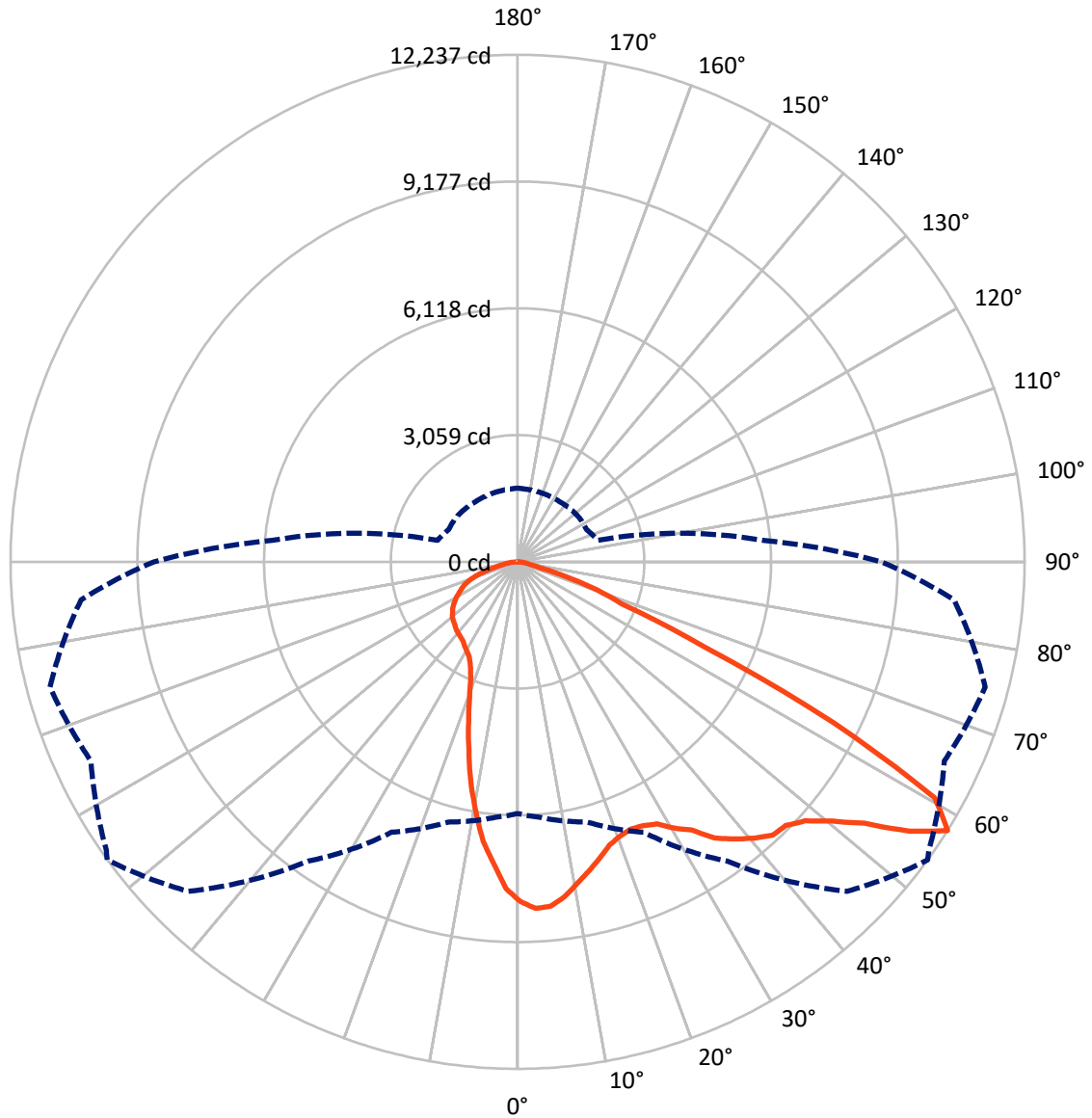
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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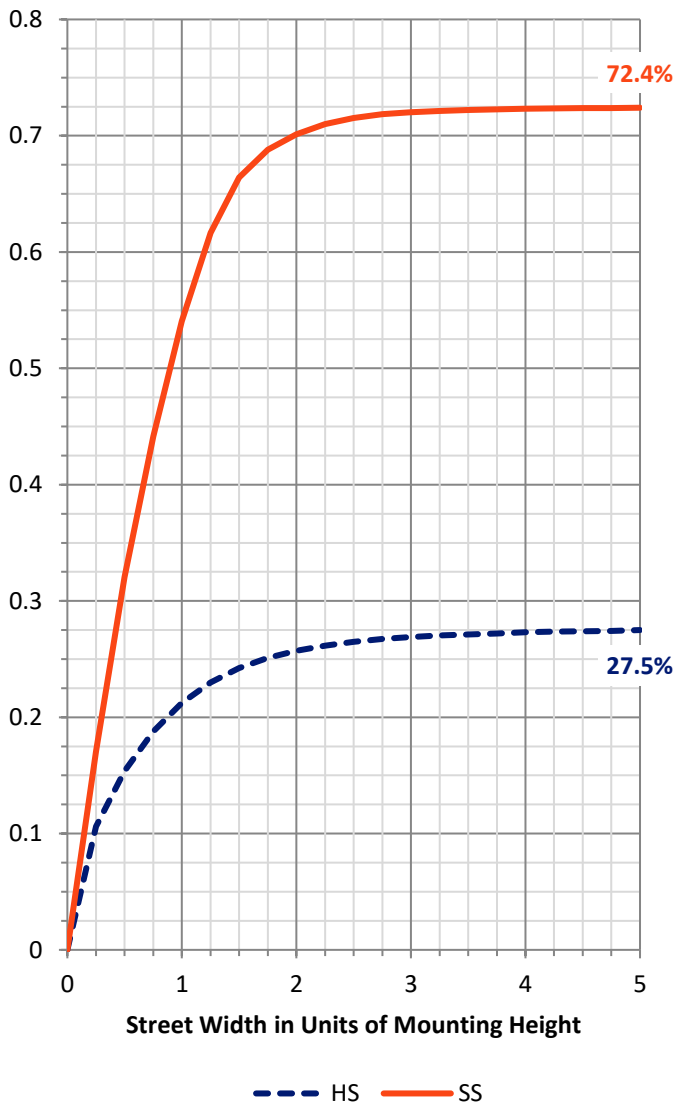
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5837.3	0.0	5837.3
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	15262.2	0.0	15262.2
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	21099.5	0.0	21099.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	707.3	3.4
10°-20°	1637.6	7.8
20°-30°	2300.8	10.9
30°-40°	3216.6	15.2
40°-50°	4354.6	20.6
50°-60°	5304.1	25.1
60°-70°	2762.6	13.1
70°-80°	707.9	3.4
80°-90°	108.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21099.5	100.0
0°-180°	21099.5	100.0

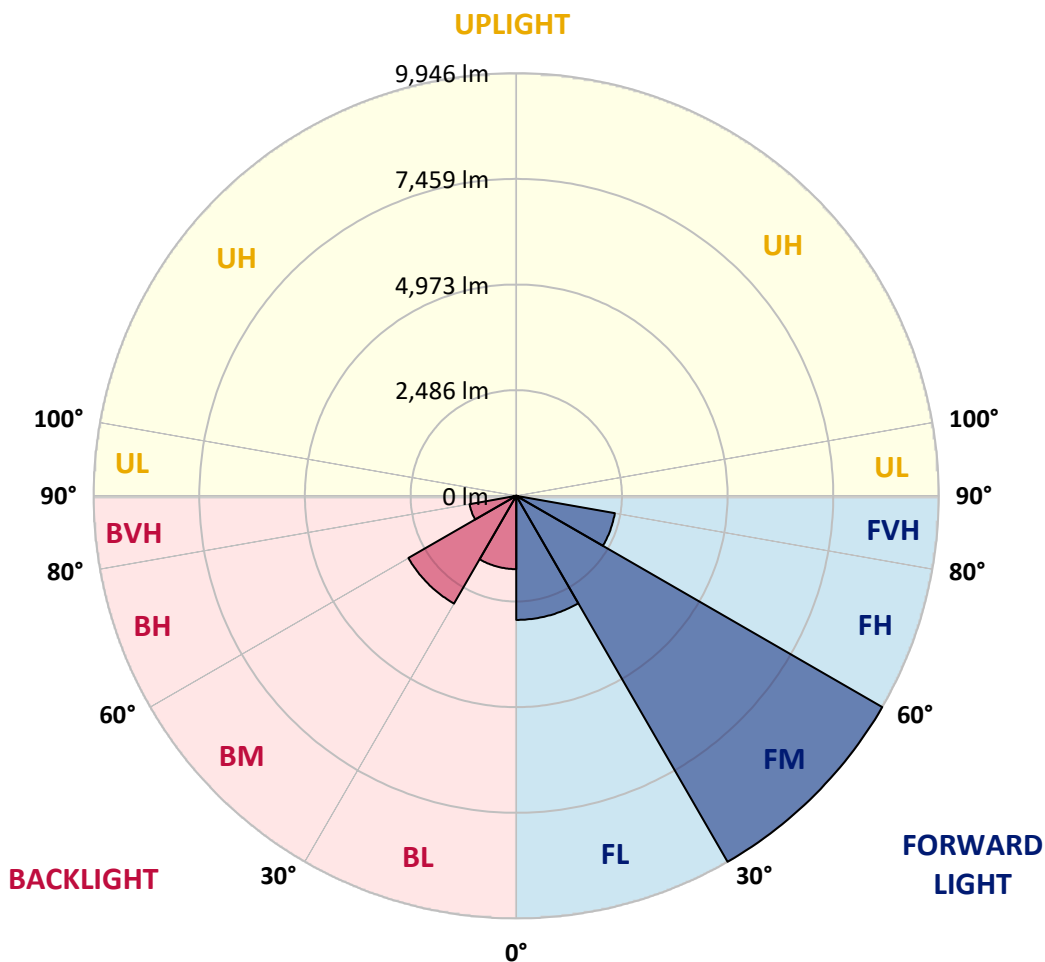


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2920.5	13.8			
FM (30°-60°)	9945.7	47.1			
FH (60°-80°)	2355.3	11.2			G2/5000
FVH (80°-90°)	40.8	0.2			G1/100
BL (0°-30°)	1725.2	8.2	B3/2500		
BM (30°-60°)	2929.7	13.9	B3/5000		
BH (60°-80°)	1115.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	67.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1
2.5°	8434.4	8401.8	8407.2	8450.6	8396.4	8374.7	8374.7	8268.9	8277.1	8203.9	8184.9
5°	8239.1	8163.2	8214.7	8279.8	8290.6	8312.3	8347.6	8320.5	8244.5	8165.9	8038.4
7.5°	7729.2	7797.0	7816.1	7862.1	7959.7	8049.2	8160.4	8084.6	8081.8	8003.1	7927.2
10°	7281.7	7241.1	7344.1	7412.0	7574.7	7723.8	7894.7	7886.5	7927.2	7837.8	7707.5
12.5°	6837.0	6804.4	6853.3	7007.8	7235.6	7452.6	7656.0	7580.1	7797.0	7780.7	7501.5
15°	6365.1	6389.5	6460.0	6603.7	6902.1	7162.4	7420.1	7422.8	7615.3	7680.4	7306.2
17.5°	6034.3	6007.1	6096.6	6310.8	6576.7	6888.5	7181.4	7241.1	7536.7	7574.7	7246.5
20°	5787.5	5825.4	5942.0	6050.5	6356.9	6734.0	7064.8	7086.5	7520.4	7623.4	7151.6
22.5°	5727.8	5706.1	5744.0	5920.3	6172.5	6582.1	7002.4	7083.8	7517.7	7607.2	6972.6
25°	5665.4	5735.9	5733.2	5909.5	6093.9	6460.0	7054.0	7143.5	7661.4	7691.3	6997.0
27.5°	5806.4	5798.3	5874.2	5887.8	6115.6	6492.6	7162.4	7230.2	7900.1	7875.7	7016.0
30°	5947.4	5906.8	5952.8	6112.9	6218.7	6679.7	7460.7	7455.3	8209.3	8193.0	7075.7
32.5°	6121.0	6102.0	6131.8	6272.9	6451.9	6929.2	7712.9	7873.0	8523.9	8626.9	7281.7
35°	6153.6	6232.2	6302.8	6492.6	6747.5	7333.3	8187.6	8320.5	8887.3	9210.0	7675.0
37.5°	6359.7	6389.5	6555.0	6891.3	7124.4	7873.0	8488.6	8572.7	9218.1	9584.2	8090.0
40°	6579.3	6614.6	6864.1	7216.7	7536.7	8225.6	8770.7	8797.8	9323.9	9871.8	8361.1
42.5°	6877.6	6910.2	7157.0	7599.1	8027.6	8526.6	9020.2	9050.0	9315.7	10202.6	8792.4
45°	7186.8	7265.5	7555.6	8057.4	8442.5	8879.1	9077.1	9199.2	9391.7	10498.2	9142.2
47.5°	7620.8	7694.0	7932.7	8423.5	8873.7	9188.3	9340.2	9459.5	9573.4	10755.8	9367.3
50°	8081.8	8095.4	8385.5	8830.4	9161.2	9538.2	9831.0	9871.8	9812.1	11054.2	9749.7
52.5°	8420.8	8464.2	8689.3	9123.2	9616.8	10080.6	10481.9	10525.3	10408.7	11165.3	9879.9
55°	7859.4	7835.0	8201.1	8778.8	9923.3	10888.7	11471.8	11504.4	10842.7	11509.8	10305.7
57.5°	6074.9	6191.5	6503.4	7200.4	8816.7	11246.7	12236.6	12120.0	11363.4	11683.4	10576.8
60°	4415.2	4388.0	4596.8	5063.3	6644.5	9692.8	11569.5	11688.8	10937.6	10530.7	8721.8
62.5°	3596.2	3558.2	3574.5	3590.7	4287.7	6432.9	8564.5	8561.9	8423.5	7569.3	5882.4
65°	2874.7	2964.2	2972.3	3094.4	3183.9	3843.0	4963.0	5228.8	4553.5	3734.4	2709.3
67.5°	2166.9	2134.4	2242.8	2676.8	2844.9	2774.4	2709.3	2739.2	1947.2	1404.9	1323.4
70°	1277.4	1263.8	1394.0	1865.9	2343.2	2204.8	2042.1	2044.9	1337.1	981.7	1092.9
72.5°	699.7	697.0	724.1	946.5	1331.6	1383.1	1225.9	1263.8	797.3	794.6	854.3
75°	390.6	382.4	374.3	417.7	480.1	507.1	518.0	523.4	547.9	612.9	637.4
77.5°	143.8	138.3	138.3	160.0	203.4	254.9	322.8	328.2	387.8	444.7	469.2
80°	48.8	54.3	73.2	100.4	135.6	181.7	219.7	225.1	273.9	311.9	320.0
82.5°	29.8	32.6	48.8	70.5	97.6	127.5	162.7	165.4	203.4	227.8	238.7
85°	13.5	16.3	27.1	43.4	62.4	84.1	86.8	86.8	84.1	86.8	81.4
87.5°	0.0	0.0	5.4	5.4	5.4	8.1	10.9	8.1	13.5	16.3	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1	8201.1
2.5°	8127.9	8098.1	8005.9	7924.5	7900.1	7791.6	7631.6	7650.6	7533.9	7588.2	7531.3
5°	8016.7	7916.4	7680.4	7580.1	7317.0	7197.7	7116.3	6913.0	6818.0	6799.0	6717.7
7.5°	7732.0	7669.6	7374.0	7102.7	6823.5	6584.8	6278.3	6069.5	5920.3	5879.6	5760.3
10°	7506.9	7368.6	6959.1	6546.8	6148.1	5733.2	5334.5	5022.6	4870.8	4694.5	4634.8
12.5°	7284.5	7075.7	6522.4	5993.6	5478.3	4954.8	4472.1	4092.4	3761.5	3682.9	3655.8
15°	7146.1	6782.7	6131.8	5494.5	4762.3	4078.9	3596.2	3346.6	3143.2	3059.2	3118.8
17.5°	6964.5	6541.4	5757.6	4908.8	4103.3	3474.1	3070.0	2915.4	2842.2	2850.4	2825.9
20°	6736.6	6313.6	5266.8	4377.2	3514.8	3013.1	2782.5	2725.5	2736.4	2755.4	2747.2
22.5°	6573.9	6036.9	4911.4	3834.8	3037.5	2758.1	2663.2	2622.5	2657.7	2674.0	2660.5
25°	6449.2	5801.0	4480.2	3354.8	2760.9	2614.4	2571.0	2568.2	2622.5	2644.2	2630.6
27.5°	6335.3	5581.3	4051.7	2988.6	2576.4	2503.2	2489.6	2522.2	2557.4	2579.1	2598.1
30°	6267.4	5413.2	3650.3	2682.2	2484.2	2448.9	2424.6	2454.4	2473.3	2495.0	2484.2
32.5°	6332.6	5293.9	3262.5	2508.6	2408.3	2373.0	2405.5	2386.6	2419.2	2438.1	2408.3
35°	6535.9	5188.1	2985.9	2416.4	2321.5	2335.1	2340.5	2332.3	2345.9	2329.7	2364.9
37.5°	6736.6	5150.1	2731.0	2337.7	2280.8	2280.8	2275.4	2259.1	2286.2	2280.8	2297.1
40°	6991.6	5174.5	2514.1	2253.7	2242.8	2237.4	2215.7	2213.0	2202.2	2204.8	2210.3
42.5°	7213.9	5228.8	2389.3	2199.4	2207.6	2218.4	2177.8	2145.2	2158.7	2131.6	2131.6
45°	7449.9	5277.6	2278.1	2161.5	2153.3	2150.7	2118.1	2099.1	2088.3	2091.0	2115.4
47.5°	7821.5	5348.1	2194.0	2110.0	2115.4	2074.7	2066.6	2042.1	2053.0	2069.2	2072.0
50°	8084.6	5497.3	2128.9	2050.3	2069.2	2042.1	1993.4	1982.5	1982.5	2009.6	2004.2
52.5°	8268.9	5706.1	2066.6	1985.2	1993.4	1971.7	1955.4	1931.0	1914.7	1952.6	1971.7
55°	8833.0	6053.2	2050.3	1931.0	1928.2	1906.5	1876.7	1852.3	1844.2	1849.6	1887.6
57.5°	8778.8	5944.8	1998.8	1836.1	1830.6	1800.7	1770.9	1762.8	1760.1	1765.5	1776.4
60°	7127.2	4390.8	1784.5	1727.5	1719.4	1714.0	1684.2	1651.6	1635.4	1651.6	1638.0
62.5°	4716.2	2939.9	1573.0	1597.4	1602.8	1589.3	1540.4	1507.9	1513.3	1532.3	1502.4
65°	2316.0	1727.5	1426.5	1491.6	1497.0	1459.0	1412.9	1375.0	1356.0	1372.3	1358.7
67.5°	1323.4	1320.8	1307.2	1375.0	1372.3	1334.3	1261.1	1228.5	1196.0	1201.4	1193.3
70°	1122.7	1144.4	1171.6	1212.2	1209.6	1166.2	1079.4	1054.9	1008.9	1003.4	989.9
72.5°	884.1	922.1	981.7	1011.6	987.2	932.9	875.9	835.3	794.6	770.2	778.4
75°	656.3	710.6	743.1	762.1	724.1	694.3	648.2	599.4	550.5	528.8	520.7
77.5°	477.3	493.6	523.4	537.0	512.6	482.7	455.6	406.8	360.7	330.9	322.8
80°	333.6	344.4	366.1	366.1	366.1	352.6	317.3	268.5	238.7	211.6	206.1
82.5°	233.3	244.1	265.8	254.9	252.2	235.9	214.2	176.3	143.8	124.7	119.3
85°	81.4	89.5	108.4	130.2	138.3	135.6	122.1	97.6	76.0	62.4	56.9
87.5°	18.9	18.9	21.7	18.9	18.9	21.7	18.9	18.9	18.9	13.5	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)